



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

THE

A S S U R A N C E

MAGAZINE.

VOL. I.

LONDON:
CHARLES & EDWIN LAYTON, 150, FLEET STREET.

EDINBURGH: KENNEDY.
NEW YORK: H. BAILLIERE, BOOKSELLER, 290, BROADWAY.
PARIS: J. B. BAILLIERE, LIBRAIRE, RUE HAUTEFEUILLE.
HAMBURG: PERTHES, BESSER, & MAUKE.

1851.

[ENTERED AT STATIONERS' HALL.]

LONDON:
PRINTED BY CHARLES AND EDWIN LAYTON,
150, FLEET STREET.

P R E F A C E.

AT the close of the first volume of the *Assurance Magazine*, the Editors pause to express their thanks to the many friends who have kindly contributed to its pages, and who have still more kindly been at the pains to exert their influence for the extension of its circulation.

This needful support has been the more grateful, inasmuch as it has shown not only that the objects with which the Magazine was established are generally appreciated, but that the conduct of it with a view to the attainment of those objects has been thus far approved.

Under such auspices, the Editors cheerfully resume their labours, resolved to let no means escape them which may be calculated to advance the character of the undertaking, or to increase the utility of it.

London, 1851.

CONTENTS OF VOLUME I.

Nos. I. and II. having been paged similarly, the folios with an asterisk attached refer to No. II.

	<small>PAGE</small>
Memoirs of the Early History of Auxiliary Tables for the Computation of Life Contingencies. By Frederick Hendriks, Esq., Actuary to the Globe Insurance Company	1
On a General Method of Approximation to the values of Annuities and Assurances, for long terms of Years, depending upon One or Two Lives. By Samuel Brown, Esq., Actuary to the Mutual Life Assurance Society	20
The History of Assurance.—On Indirect Methods of acquiring Knowledge.—The Method of History.—The First Table of Mortality, By Edwin James Farren, Esq.	40
On the Liability of the Occupier of a Tenement for Damage done to that of a Neighbour by Fire kindled through his Own or his Servant's Negligence. By C. J. Bunyon, Esq., M.A., Barrister-at-Law	47
Notes on the Policy of Marine Insurance, with Suggestions for its Revisal, and proposed Forms for a new Policy. By Manley Hopkins, Esq., Average Adjuster	50
Maritime Risks.—Statement of Collisions, extracted from Lloyd's List for the years 1845 to 1849 inclusive. Prepared by John A. Rucker, Esq., Underwriter to the Corporation of the London Assurance	60
On the Values of Annuities, which are to pay certain given Rates of Interest on the Purchase Money during the whole term of their continuance, and to replace their Original Values, on their expiration, at certain other given Rates. By Peter Hardy, Esq., F.R.S., one of the Vice-Presidents of the Institute of Actuaries of Great Britain and Ireland, and Actuary to the London Assurance Corporation	1*
A General Method of obtaining the Finite Integral of any Rational Algebraic Function of x ; or Summing any Series of which such a Function is the General Term. By William Orchard, Esq., Fellow of the Institute of Actuaries	9*
Supplementary Remarks, by Mr. Frederick Hendriks, on "Auxiliary Tables for Life Contingencies," including Notice of a recent Table by W. T. Thomson, Esq., F.R.S.E., Manager of the Standard Life Assurance Company	12*
On the Contrivances required to render Contingent Reversionary Interests Marketable Securities	18*, 151, 287
On the Determination and Division of Surplus, and on the Modes of Returning it to the Contributors	22*, 159, 29*
Mortality amongst Lives selected at the Ages 75 to 81 for Government Annuities .	31*
On the Fires in London during the 17 years from 1833 to 1849 inclusive, showing the Numbers which occurred in different Trades, and the principal Causes by which they were occasioned. By Samuel Brown, Esq., Fellow of the Institute of Actuaries	63*
On the Doctrine of Constructive Total Loss. By Manley Hopkins, Esq., Average Adjuster	71*
Concerning the proper Stamps upon Assignments of Policies of Insurance. By C. J. Bunyon, Esq., M.A., F.I.A., Barrister-at-Law	137
On the true Measure of the Probabilities of Survivorship between Two Lives. By Peter Gray, Esq., F.R.A.S.	166
On the Rates of Premium to be charged for Assurances on the Lives of Military Officers serving in Bengal. By Charles Jellicoe, Esq., one of the Vice-Presidents of the Institute of Actuaries, and Actuary to the Eagle Insurance Company	179
On the Value of Selection as exercised by the Policy-holder against the Company. By John Adams Higham, Esq., Fellow, and Member of the Council, of the Institute of Actuaries, and Actuary to the Royal Exchange Assurance Corporation	

	<i>PAGE</i>
French Rates for Insurance against Fire, according to nature of Risks, and Trades or Occupations	203
Marine Risks between London and Dungeness, and between the Thames and the Isle of Wight	212
The Practice and Experience of the Clerical, Medical, and General Life Assurance Society, chiefly with reference to Invalid Lives. By George H. Pinckard, Esq., Actuary to the said Society; Fellow of the Institute of Actuaries, and of the Statistical Society	273
On the proper Allowance to be made for the Surrender of Policies of Assurance. By Charles Jellicoe, Esq., Actuary to the Eagle Insurance Company, &c.	279
Sketch of the recent Progress of the Assurance of Life and Property on the Continent. By Samuel Brown, Esq., Member of the Council and one of the Honorary Secretaries of the Institute of Actuaries, and Actuary to the Mutual Life Assurance Society	293
Statistics of Suicide. By R. Thompson Jopling, Esq., F.S.S.	308
Increase of Fire Insurances in Great Britain from 1844 to 1850	317
Rates for Maritime Assurances as settled by the Paris Underwriters	322
Casualties to Shipping in the St. George's and Liverpool Channels in 1850	329
Marine Insurance in Antwerp	331
 NOTES AND QUERIES:—	
Mode of deducing Formula for Endowment Assurance	332
Method of approximation to the value of ρ , in the Equation $A = \frac{(1 + \rho)^n - 1}{\rho}$	<i>ib.</i>
Equivalence of Compound Interest with Simple Interest paid when due	335
 FOREIGN INTELLIGENCE:—	
America :	
An Act with respect to Insurances on Lives for the benefit of Married Women	220
The American Mutual Life Assurance Company	<i>ib.</i>
New York Life Assurance and Trust Company	222
Canada Life Assurance Company, Hamilton	223
Austria :	
Accounts of the Imperial First Austrian Fire Insurance Company	229
Bavaria :	
Report of the Cattle Insurance Company of the Pfalz	348
Belgium :	
Report on Government Insurance	65
Project of Law. Deferred Government Annuities	71
Belgian Company for General Assurance against the Risks of Fire	225
Antwerp.—Summary of Maritime Insurances effected by the “Cercle d'Assureurs Particuliers” from 1841 to 1849 inclusive	337
Compagnies d'Assurances Maritimes souscrivant à Anvers	338
Bombay :	
Mortality amongst Europeans in the Bombay Army, 1841 to 1848	80
Census of Bombay	83
Denmark :	
Results of the Government Insurance against Fire in the 17 years, 1827 to 1844	81*
East and West Indies :	
Mortality amongst European Troops, 1840 to 1848	79
France :	
Life Assurance Companies in France	63
Government Tax proposed to be levied on the French Fire Insurance Companies, for the Corps of “Pompiers”	64
Assurances upon the Lives of others	75*
Mercantile Guarantee Risks	77*
<i>The Assurance Magazine</i>	<i>ib.</i>
Summary of the Report of the Life and Fire Branches of “Le Phénix” Assurance Company, to 31st December, 1850	340
Comparison of some of the principal Mutual Tontine Associations	341
Germany :	
Gotha.—Life Assurance Company for Germany	73
“ Fire Insurance Bank for Germany	347

Contents of Vol. I.

vii

	PAGE
FOREIGN INTELLIGENCE—Germany, continued—	
Twenty-ninth Balance Sheet of the Fire Insurance Company for Germany	75
Berlin Fire Engine Establishment	78
Fifty Years' Experience of the Mecklenburg Hail Insurance Company	78*
Berlin.—Die Berlinische Feuer Versicherungs Anstalt	226
State of the principal Fire Insurance Companies in Germany	227
State of the principal Life Assurance Companies in Germany	228
Statement of the Progress and Position of some of the Principal Life Assurance Companies at the close of the year 1849 or 1850.	346
Holland :	
Conditions of the Loan of £208,333 for encouraging Free Cultivation in the Dutch East Indies	342
Poland :	
Fire Insurance by the Government	81*
Russia :	
Die Russische Gesellschaft zur Versicherung von Capitalien, &c.	230
Sweden :	
The Stockholm City Mutual Insurance Society for Goods and Furniture . .	349
Trieste :	
Riunione Adriatica di Sicurtà in Trieste	233
MISCELLANEA :—	
The Diseases of Tradesmen, 1705	84
Interest of Money in 1728	85
Early Tables of Compound Interest.	ib.
Rates of Interest in 1693	86
Assurance upon Goods from Robbers, and upon Lives, 1693	ib.
Incident in the Life of Dr. Price	ib.
Competition in Fire Assurance	87
A Plea for Life Assurance	ib.
The Mortality of the Scottish Widows' Fund and Life Assurance Society, 1815 to 1845	81*
Intensity of Diseases at different periods of Life	82*
Risks from Gunpowder in Liverpool	83*
Marine Insurance in 1693	84*
Advice to choose Honest Insurers	ib.
The Interest of the Insured in Marine Insurances	85*
Whether it be Nationally Advantageous to Insure the Ships of our Foreign Enemies	86*
Corpulence in connection with Life Assurance	87*
Report in 1761 of the Attorney and Solicitor-General on the Petition for a Charter for the Equitable Life Assurance Society	89*
Sir William Petty's Essay on the Growth of the City of London	234
Curious Speculation of his on the Number of People at the Resurrection .	238
Instances of Longevity	239
The Productiveness of Marriages in England, 1696	351
Vital Statistics of Iceland—Deaths by Drowning	352
Fertility of the Women of Iceland	ib.
Population of New South Wales	353
Mortality in Schleswig and Holstein	354
The Irish Census	ib.
Fires in Paris, and Accidents arising from them	355
CORRESPONDENCE :—	
Life-Contingency Problems	92*
On Medical Fees paid by Life Assurance Companies	93*
On the proper Mode of Estimating the Value of Permanent and Terminable Annuities	ib.
On the French Life Assurance Companies	95*
On the Comparative Advantages of the Old and the New Methods of Computation	96*
On the Value of Annuities certain, of which the successive Payments are the Figurate Numbers	100*
On the Value of Annuities which are to pay the Purchaser given Rates of Interest, &c.	101*

	PAGE
CORRESPONDENCE—continued	
Letter from Dr. Babington on the Society for the Investigation of Epidemics	240
Solutions of the Problems proposed by E. J. F. at p. 92*, by E. J. F.	355
On a Method of Closer Approximation in the Determination of Surplus	357
Epidemiological Society—Statement in reference to	360
REVIEWS OF NEW WORKS:—	
Notes on the Pecuniary Interests of Heirs of Entail, with Calculations regarding such Interests in reference to the Acts of Parliament affecting Entails, and Tables showing the Values of Life Rent Interests. By William Thomas Thomson, One of the Vice-Presidents of the Institute of Actuaries, Manager of the Standard Life Assurance Company.	103*
Tables and Formulae for the Computation of Life Contingencies, with copious Examples of Annuity, Assurance, and Friendly Society Calculations. By Peter Grey, F.R.A.S., Associate of the Institute of Actuaries of Great Britain and Ireland	104*
A Few Thoughts on Commission, Divisions of Profit, Selection of Lives, the Mortality in India, and other subjects relating to Life Assurance, &c. &c. By Samuel Brown, Esq., F.I.A.	105*
On the Mortality of Master Mariners. By F. G. P. Neison, Esq.	241
General Average, and the Losses and Expenses resulting from General Average Acts, practically considered. By Laurence R. Baily, Esq.	243
New Works received	245
Industrial Investment and Emigration. By Arthur Scratchley, M.A., Actuary to the Western Life Assurance Society. Second Edition, much enlarged..	360
Letters addressed to H. R. H. the Grand Duke of Saxe-Cobourg and Gotha. By M. A. Quetelet, Astronomer Royal of Belgium.	362
Single and Annual Assurance Premiums for every value of Annuity. By William Orchard, A.I.A.	363
Works recently published	364
REPORTS OF ASSURANCE COMPANIES:—	
Ægis—Alfred—Alliance Marine—Atlas—British Empire Mutual Fire—Ditto Life—Catholic Law and General—Church of England—City of London—Clerical, Medical, and General—Colonial—Eagle—Edinburgh—Engineers' Masonic and Universal—English Widows' Fund—Equitable—Equity and Law Life—Ditto—Gresham	88 to 102
British Empire Mutual—Law Life—Legal and Commercial Fire—Ditto Life—London and Liverpool—London Indisputable—London Mutual—Manchester—Merchants' and Tradesmen's Mutual—Metropolitan Counties and General—Mutual—National Loan Fund—National Mercantile Fire—Ditto Life—National Provident—North of England—Norwich Union Fire—Ditto Hail—Ditto Life	107* to 118*
Medical, Invalid, and General—Palladium—Professional—Provident Clerks'—Reliance Mutual—Royal Insurance—Royal Farmers'—Scottish Amicable—Scottish Equitable—Scottish Provident—Solicitors and General—Sovereign—Standard—Times—United Deposit—United Guarantee—Victoria—United Mutual—University—United Kingdom Temperance—Widows' Fund of Advocates of Scotland	245 to 260
INSTITUTE OF ACTUARIES:—	
Proceedings of the Institute	103, 121*, 264, 365
Examination Papers	110
Visit to Edinburgh	112
Proposed Bill of Incorporation	115
Solution of the Questions proposed to Candidates for the "Certificate of Competency," at the First Examination held on the 10th and 11th June, 1850; with an Investigation of the principal Formulae required in their Solution. By H. W. Porter, Esq., of the Alliance Life Assurance Company	123*
Progress of the Bill for regulating the Profession of Actuaries in Great Britain and Ireland	264
List of Members of the Institute	268
General Meeting of the English and Foreign Representatives of Assurance Interests	368
Speeches at the Dinner given to the latter	379